

## EAST Search History

Ref #	P#s	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	111379	energy near5 (lower\$4 or minimi\$4)	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2006/10/19 20:58
L2	111386	energy near5 (lower\$4 or minimi\$5)	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2006/10/19 20:59
L3	10107	energy near5 (lower\$4 or minimi\$5) near2 (use or usage or consuming or consume\$4 or consumption)	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2006/10/19 21:00
L4	10	energy near5 (lower\$4 or minimi\$5) near2 (use or usage or consuming or consume\$4 or consumption) near40 pellet	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2006/10/19 21:01

## EAST Search History

L5	348	energy near5 (lower\$4 or minimi\$5) near2 (use or usage or consuming or consume\$4 or consumption) and pellet	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2006/10/19 21:01
L6	3	energy near5 (lower\$4 or minimi\$5) near2 (use or usage or consuming or consume\$4 or consumption) and pellet and polyethylene near terephthalate	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2006/10/19 21:02
L7	106	energy near5 (lower\$4 or minimi\$5) near2 (use or usage or consuming or consume\$4 or consumption) and pellet and polymeriz\$5	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2006/10/19 21:01
L8	29	energy near5 (lower\$4 or minimi\$5) near2 (use or usage or consuming or consume\$4 or consumption) and pellet and polyethylene near2 terephthalate	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2006/10/19 21:02
L9	29	energy near5 (lower\$4 or minimi\$5) near2 (use or usage or consuming or consume\$4 or consumption) and pellet\$4 and polyethylene near2 terephthalate	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2006/10/19 21:02

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L10	25	energy near2 (lower\$4 or minimi\$5) near2 (use or usage or consuming or consume\$4 or consumption) and pellet\$4 and polyethylene near2 terephthalate	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2006/10/19 21:02
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**Web** Results 1 - 10 of about 90 for **(energy consumption lower) and reactor and (polyethylene terephthalate)**

**Scholarly articles for (energy consumption lower) and reactor and (polyethylene terephthalate) and (amorphous pellet) and (solid state polymerization) and heat and cool and crystallize**



[A novel non-phosgene polycarbonate production process ...](#) - Fukuoka - Cited by 8  
[Modeling and analysis of new processes for polyester and ...](#) - Yao - Cited by 6  
[Polymer/layered silicate nanocomposites: a review from ...](#) - Ray - Cited by 231

**Micronized particles - Patent 6503616**

Commercially **polyethylene terephthalate** chips produced in melt phase **polymerization** plants are subsequently processed in **solid state polymerization** plants ...  
[www.freepatentsonline.com/6503616.html](http://www.freepatentsonline.com/6503616.html) - 46k - [Cached](#) - [Similar pages](#)

**Process for pellet formation from amorphous polyester - Patent 5540868**

For improved **solid-state polymerization**, the particles should preferably be robust ... For example, an essentially-**amorphous polyethylene terephthalate** may, ...  
[www.freepatentsonline.com/5540868.html](http://www.freepatentsonline.com/5540868.html) - 100k - [Cached](#) - [Similar pages](#)  
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**[PDF] "Continuous Solid-State Polycondensation of Polyesters". In ...**

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Jabarin, S. A. and Lofgren, E. A., **Solid state polymerization of ... crystallization kinetics of polyethylene terephthalate: mathematical mod-** ...  
[doi.wiley.com/10.1002/0470090685.ch4](http://doi.wiley.com/10.1002/0470090685.ch4) - [Similar pages](#)

**[PDF] Chemical Recycling of PET: Methods and Products**

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**state** than in the **solid state** [111112]; therefore, it is advantageous for the ... porating postconsumer recycled **polyethylene terephthalate**: a new polyester ...  
[doi.wiley.com/10.1002/3527601961.ch27](http://doi.wiley.com/10.1002/3527601961.ch27) - [Similar pages](#)

**[PDF] An Overview of Polymer Processing**

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**Solid state** polymer extrusion has certain similarities with cold extrusion of ... **Polyethylene terephthalate** or PET is the polymer most widely used in ...  
[www.polydynamics.com/Overview\\_of\\_Polymer\\_Processing.PDF](http://www.polydynamics.com/Overview_of_Polymer_Processing.PDF) - [Similar pages](#)

**PolyAid® GLOSSARY OF POLYMER TERMINOLOGY** Close Window A B C D E F ...

APET, **Amorphous Polyethylene Terephthalate** ... **Solid-state** creep tests are used to measure long term behavior of mechanically loaded material. ...  
[www.dannier.com/access/PolyAid-Glossary.htm](http://www.dannier.com/access/PolyAid-Glossary.htm) - 557k - [Cached](#) - [Similar pages](#)

**[PDF] IRC in POLYMER SCIENCE**

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orientation in the polymer by **solid state** drawing processes such as die ... For example, **low density polyethylene** exhibits desirable properties such as ...  
[www.polymerirc.org/irc\\_pdfs/showcase2004.pdf](http://www.polymerirc.org/irc_pdfs/showcase2004.pdf) - [Similar pages](#)

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100-kW-class **solid-state** laser for the. High **Energy** Laser Strategic Test Facility. (HELSTF) in New Mexico. The HELSTF. laser is based on LLNL's **heat-** ...

[www.osti.gov/bridge/servlets/purl/793681-yJ28cy/native/793681.pdf](http://www.osti.gov/bridge/servlets/purl/793681-yJ28cy/native/793681.pdf) - [Similar pages](#)

[PDF] DOE-EERC jointly sponsored research program,9/99,465125

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recycle **polyethylene terephthalate** (PET) or high-density **polyethylene** (HDPE) exist ... reduction in furnace fuel requirements owing to **lower heat** burden for ...

[www.osti.gov/bridge/servlets/purl/775212-EsNi2z/webviewable/775212.pdf](http://www.osti.gov/bridge/servlets/purl/775212-EsNi2z/webviewable/775212.pdf) - [Similar pages](#)

### Archived Materials and Engineering News

"Smart" **Solid-State** Light Sources Have Potential for Significant **Energy** ... Huntsman to Purchase Technology for World-Scale **Low Density Polyethylene** Plant ...

[www.azom.com/newsarchive.asp?startdate=20050201&enddate=20050229](http://www.azom.com/newsarchive.asp?startdate=20050201&enddate=20050229) - 579k -

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[\[PDF\] REVIEW OF SCIENCE AND TECHNOLOGY IN ESCWA MEMBER COUNTRIES ISSUE NO. 4](#)

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**Polyethylene consumption** in Egypt according to its density (1998). ... involves **lower energy** requirements in processing ...

[www.escwa.org.lb/information/publications/edit/upload/tech-01-5-e.pdf](http://www.escwa.org.lb/information/publications/edit/upload/tech-01-5-e.pdf) - [Similar pages](#)

[Archived Materials and Engineering News](#)

Wellman Order **Solid State Polymerization** Unit from Buehler ... Eastman Introduces **Pellet** form of its **Amorphous** Polyolefin ...

[www.azom.com/newsarchive.asp?startdate=20030201&enddate=20030231](http://www.azom.com/newsarchive.asp?startdate=20030201&enddate=20030231) - 820k -

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The macroscopic behaviour of polymeric materials in the **solid state** are determined by ... prepared with negligible **energy consumption** and incorporate large ...

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[PHPSESSID=5dfc56b3597d40e846462a390600e7ff](http://www.rheology-usr.org/.../Abstracts/AERC2003_symposiums.pdf?PHPSESSID=5dfc56b3597d40e846462a390600e7ff) - [Similar pages](#)

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polymer, as seen from the change in **heat** of fusion and **crystallization**. temperature. ... synthesis and **solid-state** characterization of new nanoporous and **low** ...

[www.mrs.org/s\\_mrs/bin.asp?CID=2103&DID=91266&DOC=FILE.PDF](http://www.mrs.org/s_mrs/bin.asp?CID=2103&DID=91266&DOC=FILE.PDF) - [Similar pages](#)

[\[PDF\] Chemical and Polymer Physics Sectional Programme Overview CHEMICAL ...](#)

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cles represent the transition regime between molecular and **solid state** ... **polyethylene terephthalate** (PETP) foams - Specifically designed and pre- ...

[www.dpg-tagungen.de/archive/2006/dresden/cpp.pdf](http://www.dpg-tagungen.de/archive/2006/dresden/cpp.pdf) - [Similar pages](#)

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**polyethylene** produced is consumed in the film market. Due to its **low** cost, ... **amorphous** part of the poly- or lose **energy** and thus contribute towards the ...

[www.equistar.com/TechLit/Tech%20Topics/Emerging%20Technologies/PE-Clay%](http://www.equistar.com/TechLit/Tech%20Topics/Emerging%20Technologies/PE-Clay%20Nanocomposites.pdf)

[20Nanocomposites.pdf](http://www.equistar.com/TechLit/Tech%20Topics/Emerging%20Technologies/PE-Clay%20Nanocomposites.pdf) - [Similar pages](#)

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**CONSUMPTION** BT FOOD FOOD ... NT **POLYETHYLENE** PLASTICS NT

**POLYETHYLENE TEREPHTHALATE POLYETHYLENE** ...

[colab.cim3.net/file/work/SICoP/ontac/reference/DTIC.txt](http://colab.cim3.net/file/work/SICoP/ontac/reference/DTIC.txt) - [Similar pages](#)

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Limiting Current Density & Specific **Energy Consumption** in Cells with Inert Turbulence ...

**Low-orbit-environment** protective coating for all-**solid-state** ...

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Indeed, **solid state** CP/MAS <sup>13</sup>C NMR strongly underestimates lignin versus ... The moisture lump 1 is characterized by rather **low energy** of activation 54.6 ...  
[www.unileoben.ac.at/~fink/pyr2002/tagungsband02.doc](http://www.unileoben.ac.at/~fink/pyr2002/tagungsband02.doc) - [Similar pages](#)

2006-10-06T02:33:11Z <http://sinin.nsc.ru/oai/oai.cgi> oai:sinin ...

As compared with compression **heat** pumps, ALBHP has **lower energy consumption**. The system is fire- and explosion-proof. Pilot samples of **heat** pumps have been ...  
[sinin.nsc.ru/oai/oai.cgi?verb=ListRecords&metadataPrefix=sinin](http://sinin.nsc.ru/oai/oai.cgi?verb=ListRecords&metadataPrefix=sinin) - [Similar pages](#)

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### DoD SBIR FY00.2 - SOLICITATION SELECTIONS w/ ABSTRACTS

Total field-use **energy consumption** includes not just steady-state operation, ... Micron sized fiber battings of molten **polyethylene terephthalate** (PET), ...  
[www.dodsbir.net/awardlist/abs002/dodabs002.htm](http://www.dodsbir.net/awardlist/abs002/dodabs002.htm) - [Similar pages](#)

### [PDF] Symposium A

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elements heating, the **heat** loss being smaller, adjusting the **energy consumption** for the developing of the fluidized **state**. ...  
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### [PDF] NASA Thesaurus - Volume 2

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**energy consumption**. fuel **consumption**. oxygen **consumption**. propellant **consumption** ... low density research. carrier density (**solid state**). density wave model ...  
[www.sti.nasa.gov/98Thesaurus/vol2.pdf](http://www.sti.nasa.gov/98Thesaurus/vol2.pdf) - [Similar pages](#)

### [PDF] CERAMIC ABSTRACTS

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**Solid state crystallization** processes in selected glass-ceramic. materials. ... **heat** economy, and the fuel **consumption** of certain ceramic products. ...  
[www.blackwell-synergy.com/doi/abs/10.1111/j.1151-2916.1964.tb14410.x](http://www.blackwell-synergy.com/doi/abs/10.1111/j.1151-2916.1964.tb14410.x) - [Similar pages](#)

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**Solid state** system provides continuous recording of concn. and alarms for ... **Heat** change properties of **amorphous** and crystalline films during pulse heating ...  
[www.surfacequery.com/search/index.php?initial=C](http://www.surfacequery.com/search/index.php?initial=C) - [Similar pages](#)

### [PDF] 3897-prelims 1..16

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metal catalysts to **lower energy** inputs. Increasingly, the use of supercritical ... The **crystallized** prepolymer beads underwent a **solid-state. polymerization** ...  
[www.oup.com/pdf/0195154835\\_combined.pdf](http://www.oup.com/pdf/0195154835_combined.pdf) - [Similar pages](#)

### [PDF] RIRDC - Partners in innovation - Pub No 04/044

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Like **energy consumption** there is a close association between plastics **consumption** and per capita ... **crystallized, solid** polylactic acid **pellets** by ...  
[www.rirdc.gov.au/reports/EFM/04-044.pdf](http://www.rirdc.gov.au/reports/EFM/04-044.pdf) - [Similar pages](#)

### [doc] APES extended website glossary

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freezing- to pass from the liquid to the **solid state** by loss of **heat**. ... PET- **polyethylene terephthalate**. A type of plastic that can be recycled and melted ...  
[lib.store.yahoo.net/lib/barronseduc/apenvscigloss.doc](http://lib.store.yahoo.net/lib/barronseduc/apenvscigloss.doc) - [Similar pages](#)

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of **polyethylene Terephthalate** (PET) as a transparent barrier adapted to ... to yield an



**amorphous** melt and followed by **solid state. polymerization.** ...

[www.patentoffice.nic.in/.../journal\\_archive/](http://www.patentoffice.nic.in/.../journal_archive/)

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the **pellets.** • Hardened stainless steel piston and **lower** section ... use in high **energy** density batteries and other **solid-state.** electrochemical devices. ...

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Grenzfl. mater.: titles per sub-domain

**Amorphous** Ni- W-P Alloy Powder and Its Hydrogenation Activity ... (1996) Surface Functionalization of **Polyethylene Terephthalate** Film and Membranes by ...  
[www.cwts.nl/ed/grfl/title10.html](http://www.cwts.nl/ed/grfl/title10.html) - [Similar pages](#)

Compositions comprising an hiv protease inhibitor patent invention

In one aspect, the **solid amorphous** dispersion comprises at least about 30 wt % is designed such that there is sufficient **heat** and mechanical **energy** (e.g., ...  
[www.freshpatents.com/Compositions-comprising-an-hiv-protease-inhibitor-dt20050616ptan20050129772.php?type...](http://www.freshpatents.com/Compositions-comprising-an-hiv-protease-inhibitor-dt20050616ptan20050129772.php?type...) - 208k - [Cached](#) - [Similar pages](#)

[\[PDF\] Environmentally Degradable Plastics Leonardo da Vinci Program](#)

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Through the **energy consumption** labeling law (EnVKG) and the ordinance ... macroradicals in the **solid state** is highly restricted, **low** molecular weight ...  
[www.degradable.net/downloads/ICS\\_Training\\_Pack\\_2001.pdf](http://www.degradable.net/downloads/ICS_Training_Pack_2001.pdf) - [Similar pages](#)

[\[PDF\] Derwent](#)

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in **amorphous state**, is drawn at least two times along vertical and ... Advantage: Straining the **polyethylene terephthalate** substrate while coating ...  
[scientific.thomson.com/ts/media/dw/productpdfs/itppdfs/itpkfil.pdf](http://scientific.thomson.com/ts/media/dw/productpdfs/itppdfs/itpkfil.pdf) - [Similar pages](#)

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57, 54, AAC3062284, Improved thermally stable poly(ethylene **terephthalate**) (PET): **Solid state polymerization** of PET, Kim, Tae-young, THE UNIVERSITY OF ...  
[www.lib.ntut.edu.tw/data/eng/pqdd/PQDD\\_list/Physics01-04.xls](http://www.lib.ntut.edu.tw/data/eng/pqdd/PQDD_list/Physics01-04.xls) - [Similar pages](#)

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The **solid state** dye-sensitized solar cells (DSSCs) are shown **low** ... enhanced chemical vapor deposition (PECVD) on **polyethylene terephthalate** (PET) ...  
[www.wcpec.org/downloads/WCPEC-4\\_Abtracts.pdf](http://www.wcpec.org/downloads/WCPEC-4_Abtracts.pdf) - [Similar pages](#)

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Additionally, **lower energy** is required for processing ... can be measured in the **solid state** below the melting point of the polymer. ...  
[www.lib.ncsu.edu/theses/available/etd-10092003-214255/unrestricted/etd.pdf](http://www.lib.ncsu.edu/theses/available/etd-10092003-214255/unrestricted/etd.pdf) - [Similar pages](#)

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**heat** of reaction, with water vapor being formed, a process for optimizing the specific **energy consumption** is proposed. In this, the ...  
[www.patentoffice.nic.in/.../journal\\_archive/journal\\_2006/pat\\_arch\\_082006/official\\_journal\\_25082006.pdf](http://www.patentoffice.nic.in/.../journal_archive/journal_2006/pat_arch_082006/official_journal_25082006.pdf) - [Similar pages](#)

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Fluidized bed **polymerization reactor**. BP Chemicals Limited ... Preforms for the fabrication of surface mountable **solid state** ...

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[PDF] [MINERAL COMMODITY SUMMARIES 2001](#)

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Imports for **consumption** of **lower** cost foreign barite increased by about 75% ...

**consumption** in fiber optics and **polyethylene terephthalate** (PET) bottles. ...

[minerals.usgs.gov/minerals/pubs/mcs/2001/mcs2001.pdf](http://minerals.usgs.gov/minerals/pubs/mcs/2001/mcs2001.pdf) - [Similar pages](#)

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